

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2005/003694

**A. CLASSIFICATION OF SUBJECT MATTER**  
F16J10/04 B23B27/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
F16J B23B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) - & JP 2003 328108 A (TOCALO CO LTD; NISSAN MOTOR CO LTD), 19 November 2003 (2003-11-19) abstract; figure 4	1-41
X	US 2003/010201 A1 (TAKAHASHI HIDEO ET AL) 16 January 2003 (2003-01-16) paragraph '0028! - paragraph '0053!; figures 1-6	1-41
A	DE 101 47 219 A1 (DAIMLERCHRYSLER AG) 17 April 2003 (2003-04-17) the whole document	1-41

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

3 March 2006

Date of mailing of the international search report

17/03/2006

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Frisch, U

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 2003010201	A1	16-01-2003	CN 1395652 A	05-02-2003
			EP 1334268 A1	13-08-2003
			WO 0240850 A1	23-05-2002
			JP 2002155350 A	31-05-2002
DE 10147219	A1	17-04-2003	JP 2003120414 A	23-04-2003
			US 2003056645 A1	27-03-2003